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DATE MAILED: 10/18/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/671,922	09/24/2003	Garo J. Derderian	MI22-2296	8459
21567 7	590 10/18/2005		EXAM	INER
WELLS ST. JOHN P.S. 601 W. FIRST AVENUE, SUITE 1300 SPOKANE, WA 99201			GURLEY, LYNNE ANN	
			ART UNIT	PAPER NUMBER
51 0121112, **	11 //201		2812	

Please find below and/or attached an Office communication concerning this application or proceeding.

		AK
	Application No.	Applicant(s)
Office Astisus Comments	10/671,922	DERDERIAN ET AL.
Office Action Summary	Examiner	Art Unit
	Lynne A. Gurley	2812
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- tiod will apply and will expire SIX (6) MON tute, cause the application to become AB.	CATION. Seply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 28	3 July 2005.	
2a)⊠ This action is FINAL . 2b)□ T	his action is non-final.	
3) Since this application is in condition for allow	wance except for formal matte	ers, prosecution as to the merits is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>6,7 and 9-11</u> is/are pending in the	application.	
4a) Of the above claim(s) is/are withd	rawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>6,7 and 9-11</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requirement.	
Application Papers		
9) The specification is objected to by the Exami	iner.	
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to b	by the Examiner.
Applicant may not request that any objection to the	he drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the corr	ection is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume	-	119(a)-(d) or (f).
2. Certified copies of the priority docume		polication No
3. Copies of the certified copies of the pi	•	·
application from the International Bure		received in this ivational stage
* See the attached detailed Office action for a li		received.
		Spreed. Ghesley
		LYNNE A. GURLEY
		PRIMARY PATENT EXAMINER
Attachment(s)	🗖 .	TC 2800, AU 2812
1)		ummary (PTO-413))/Mail Date
 Rotice of Dialisperson's Patent Drawing Neview (170-940) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 9/8/04. 		formal Patent Application (PTO-152)

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DETAILED ACTION

This Office Action is in response to the amendment filed 7/28/05.

Currently, claims 6-7 and 9-11 are pending.

Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 6-7 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gadgil (US 2004/0224504, dated 11/11/04, filed 5/20/02).

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Gadgil shows the method as claimed in figures 1-10 and corresponding text, with a plasma enhanced monolayer process which deposits the monolayer using electromagnetic fields to deposit the layers [0005]-[0022]. The substrate is biased [0071]. Pulsing may also be used to deposit the layers.

Gadgil lacks anticipation only in not explicitly teaching variations and changes of the electric field gradient and associated parameters.

It would have been obvious to one of ordinary skill in the art to have varied the electric field gradient and the associated parameters in the method of Gadgil, with the motivation that this would allow one of ordinary skill in the art to provide a more efficient process and to tailor the process to the needs of the device.

Response to Arguments

5. Applicant's arguments filed 7/28/05 have been fully considered but they are not persuasive. In response to Applicant's remarks, the prior art of record shows the method as claimed. Specifically, the electric field gradient within an ALD process effects the alignment of the molecules of the layers inherently, to some degree at least, in accordance with the physics of the deposition process itself. It is conventional that the chamber is purged of all gases and deposition ceases after the first layer (which would be obvious to also include the electric field gradient), before the second layer is deposited.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne A. Gurley whose telephone number is 571-272-1670. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne A. Gurley

Primary Patent Examiner TC 2800, Art Unit 2812

LAG

October 17, 2005